| *Confe | | | | | | | | , | to day | 1/ |
|---|-----------------------------|------------------------------------|---------------------------------------|-----------------------------|--------------------------------|-------|--------------------|------------------|------------------|----------------|
| Work Orde | | | | *94 | 275* | 51 | np. | JOW (| Page 1 | |
| Revision ID: | D412-705-0 Driveshaft Tu | innel Modification | | Accept | *N900 | 00401 | იი* | Setup St | IVI | S1* S2* |
| Start Date: Required Date: Reference: | 12/4/2012 12/4/2012 | Start Qty: 2.00 Req'd Qty: 2.00 | * | | Cust Item Customer: | | | | | |
| Approvals: | | an: MLS | Date: 12-12-0 | | | Date: | | | top | R1* R2* |
| Sequence ID/ Work Center ID Draw Nbr | | Operation Description vision Nbr | | Set Up/ Run Hours | Tool ID | | an Acce ode Qty | pt Reject Qty | Reject Number | Insp. Stamp |
| N/A 100 *1 \\ \text{TON*} DC Document Control | Rev | DOCUMENT CONTI | ROL y bluefile & type labels per P | 0.00 S | AS 15 12 / 12 CHG 005 | | Ş | 4) | formu | J 12-12- |
| *110 *110* Packaging Packaging | | Pick Kit Memo | | 0.00 | | | | λχ | , | SP A A |
| 120 *17 C QC Quality Control | | QC4- 100% Inspect ki | its for completeness | 0.00 DA 15 0.00 Ja Ja | 3 D Z | | 6 | | | |

| | | | DQA: | Date: |
|------|----------|-------------------------------------|------|-------|
| NCR: | Yes / No | WORK ORDER NON-CONFORMANCE / UPDATE | | |

| | | | | | | | | | | | QA Closed: | Date: | : | | |
|---------------|-----------------------------------|----------------------------------|------------|----------|---------------|--|--------------|----------------------------|---|---|----------------------|---|---------------------------|--|--|
| Work Ord | er: | | | | | DISPOSITION | | AGAINST DEPARTMENT/PROCESS | | | | | | | |
| Part I | No. | | | | | Rework Scrap Use-as-is Work Order Update | | | Skid-tube Machining noforming Large Fab | Crosstube Small Fab Finishing Composite | 4 | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other | | |
| Root | | | | | Descri | ption of work order update | Init | tial | Ac | tion | Sign & | | | | |
| Cause | | Date Step Qty or Non-conformance | | | | Chie | | | | | Verification | QC Inspector | | | |
| Doc/Data | | | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | |
| Process | | | | | | | | | | | | | : | | |
| Supplier | | | | | | | | 35 | | | | | | | |
| Training | | | | | | | | 3 | | | | | | | |
| Unapproved | | | | | | | | | | | | | | | |
| | | | | | | F | AULT | CATE | GORY | | | | | | |
| Landi | ing (| Gear | | | | General | | | | _ | _ | | 1 | | |
| | - | Bending | | | _ | Bend | \mathbf{H} | rain | | | Ovalized | _ | Pressure/Forced | | |
| | L_ | Centre No | ot Concei | ntric to | o/s | BOM/Route | ⊢ ⊸ | ardwa | | | Over/Under tolerance | | Temperature/Cure | | |
| | | Cracks | | | | Broken/Damaged | \vdash | | on Incomplete | _ | Part Incorre | | Weld | | |
| | | Crushed/ | Crimped. | | | Burrs | \vdash | | ions Incomplete/ | 'Unclear | Part Lost/M | <u> </u> | Wrong Stock Pulled | | |
| | Cuffs | | | | | Contamination | ШΝ | lainte | enance | _ | Part Moved | | | | |
| | Heat Treat | | | | | Countersink | M | lislabe | eled | · . | Positioned \ | | - | | |
| | Inspection Strip in Tube Cu | | | | Cut Too Short | | lisread | t | | Power Loss, | /Surge | Other | | | |
| | ├ ── ┤ ' ' | | | | Drill Holes | - | ffset | | | | | <u></u> | | | |
| | Torque Waves in Extrusion Drawing | | | | - | - | | Calibration | | | | · | | | |
| | Turning Sequence Finish | | | | | - | Ц٥ | ut of s | Sequence | | <u> </u> | | | | |
| 1 . | 1 | Wave/Tw | ist in Tul | oe e | 1 | Folio | l lo | utside | Dimensions | | | | • | | |

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

| Work Orde Tuesday, Decem | | | | *942 | 75* | Sh | MJOU | Page 2 |
|---|-------------|------------------------------------|---|-----------------------------|----------------------------|---|-------------|------------------------------|
| Item ID: Revision ID: Item Name: | D412-705-0 | 15 | | Accept | *N900040 | 100* | Setup Start | 14721 |
| Start Date: Required Date: Reference: | 12/4/2012 | Start Qty: 2.00 Req'd Qty: 2.00 | *2* *2* | | Cust Item ID: Customer: | | · | *NS2* |
| Approvals: | Process Pla | an: MVF | Date: 12-12-04 | Tooling: | Date: | | Run Start | "NR1" |
| | QC: | | Date: K S P | SPC (Y/N): | Date: | | Stop | *NR2* |
| Sequence ID/ Work Center II |) | Operation Description | 7 | Set Up/ Run Hours | Tool ID Tool # | Plan Acc Code Qty | | Reject Insp. Number Stamp |
| *130* Packaging Packaging | | Packaging Memo Identify and | pack for shipping as per PP : PPP Rev: | 0.00 0.00 P D412-705- | | 2 |) | diship GAS |
| 140 | | QC21- Final Inspection - | · · · · · · | 0.00 | | | 1 | 1-1-2 |
| *140* QC Quality Control | | Мето | | 0.00 | | *************************************** | | MF 12-12-17 |

| | | | | | | | | | | | DQA: | Date: | <u> </u> |
|-------------|-----------------------------------|-------------|----------|----------|--------|---------------------------|-----|---|------------------|--------------|--------------------------------------|---------------------------------------|-----------------------|
| NCR: Ye | s / No | | | | | WORK ORDER NON-C | O | VFORI | MANCE / UP | DATE | | | : |
| | | | | | _ | | | | | | QA Closed: | Date: | |
| Vork Order | : | | | | į | DISPOSITION | | | | AGAINST D | EPARTMENT | /PROCESS | |
| Part No |) | | | | | Rework Scrap Use-as-is | | Skid-tube Crosstube Machining Small Fab Thermoforming Finishing | | | Water Jet d. Eng. Coor. re/Packaging | Engineering Quality Other | |
| NCR No. | | | | | | Work Order Update |] | | Large Fab | Composite | | Supplier | |
| Root | | | | Desc | ript | tion of work order update | | nitial | Ac | tion | Sign & | | |
| Cause | Date | Step | Qty | 1 | • | · Non-conformance | Ch | ief Eng | Desc | ription | Date | Verification | QC Inspector |
| oc/Data | | | | | | | | | | : | | · · · · · · · · · · · · · · · · · · · | |
| uip/Tooling | | | | | | | 1 | | | | | | |
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| napproved | 1 | | | | | | | | | | • | | |
| | | | | 1, | | F | AUL | T CATE | GORY | | - L | | |
| Landing | Gear | | | | | General | | | | | | | |
| | Bending | | | Γ | \neg | Bend | | Grain | | Γ | Ovalized | Γ | Pressure/Forced |
| | ⊣ | lot Conce | ntric to | o/s | | BOM/Route | | Hardwa | re | ľ | Over/Under | tolerance | Temperature/Cure |
| <u> </u> | Cracks | | | | | Broken/Damaged | Г | i | on Incomplete | Ì | Part Incorre | | Weld |
| | Crushed/Crimped. | | | | | Burrs | | 1 | ions Incomplete/ | 'Unclear | Part Lost/M | issing | Wrong Stock Pulled |
| | Cuffs | | - | | -1 | Contamination | | Mainte | | } | Part Moved | <u> </u> | _ |
| | Heat Tre | at | | r | - | Countersink | | Mislabe | | | Positioned \ | Vrong | • |
| | ⊣ | on Strip in | Tube | F | -1 | Cut Too Short | | Misread | | 1 | Power Loss/ | _ | Other |
| F | Ripples i | | | | → | Drill Holes | | Offset | | | · | | |
| | Torque Waves in Extrusion Drawing | | | | | | | Out of | Calibration | | | | |
| <u> </u> | Turning Sequence | | | | | Finish | | Out of 9 | Sequence | | | | |

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

Page 1

Work Order ID:

94275

Parent Item:

D412-705-015

Parent Item Name:

Driveshaft Tunnel Modification

Start Date: 12/4/2012

Required Date: 12/4/2012

Start Qty: 2.00

Required Qty: 2.00

Comments:

IPP Rev:B Removed Manufacturing 06-10-03 JLM

IPP Rev:C ECN 1052 07-11-05 DD verified by:EC

IPP Rev:D ECN 12-670

| | 12.11.07 DD | Verified by:JLM | | | | | 2 070 | | | | 1 | | |
|---------------------------------|------------------------|-----------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--|---------------|--|------------------|
| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
| ANSC3A Bolt | | Purchased | No | | | 120 | Each | 302.0000 | 22 | 44 | 8 | ρ | |
| | | | • | Location | | Loc Qty | Lo | oc Code | | | | 4 | |
| ~w | S 2X | | | GA | | 38 | | | | | | ` | • |
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| ANSC4A. | | Purchased | No | | | 120 | Each | 2,790.0000 | 3 | . 6 | 2012 | -12 | -(1) |
| POL! | | | | <u>Location</u> | | Loc Oty | Lo | c Code | | (| 2/10 | <u>, , , </u> | -7. - |
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| 5m/ | 3 2 | | | 122 | 814 | 20 | | | -9T | | | | |
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| | | | | ST512 | | 1750 | | | | | 1 | | |

1750

123759

| NCR: | Yes / | Nο |
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WORK ORDER NON-CONFORMANCE / UPDATE

| DQA: | Date: | |
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| | | |

| IVCIV. I | es / NO | | | ·=··· | | | W C KI | VIANCE / OF | | QA Closed: | Dat | e: | | |
|--------------|------------|------------|----------|---------|--------------------------------|---|----------|---------------------|-------------------------|----------------------------|---------------------|--------------------|--|--|
| Work Orde | er: | | | | DISPOSITION | | | | AGAINST DE | PARTMENT | /PROCESS | | | |
| Part N | | | | | Rework Scrap | Skid-tube Crosstube Machining Small Fab Thermoforming Finishing | | | | Water Jet d. Eng. Coor. | Engineering Quality | | | |
| NCR N | lo | | | | Use-as-is Work Order Update | | | noforming Large Fab | e/Packaging Supplier | Other | | | | |
| Root | | | | Descr | iption of work order update | li | nitial | Ac | tion | Sign & | | | | |
| Cause | Date | Step | Qty | | or Non-conformance | Chi | ief Eng | Desc | ription | Date | Verification | n QC Inspector | | |
| Doc/Data | | | | | | | | | | | | · | | |
| quip/Tooling | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | * | | |
| Other | | | | | | | | | | | | | | |
| Process | | ļ | | | | | | - | | | | , | | |
| Supplier | _ | | | | | | | | | | | | | |
| Training | | | | | | | | | | | | | | |
| Jnapproved | | | | | | | | | | | | | | |
| | | | | | | FAUL | T CATE | GORY | | | | | | |
| Landir | ng Gear | | | _ | General | | | | | 1 | - | 1 . | | |
| | Bending | | | - | Bend | - ⊢ | Grain | | _ | Ovalized | | Pressure/Forced | | |
| | Centre No | ot Concer | ntric to | o/s | BOM/Route | $ \mu$ | Hardwa | | | Over/Under | ł | Temperature/Cure | | |
| | Cracks | | | | Broken/Damaged | - | | on Incomplete | <u> </u> | Part Incorre | + | Weld | | |
| | Crushed/ | Crimped. | | <u></u> | Burrs | - | | ions Incomplete/ | 'Unclear | Part Lost/M | issing | Wrong Stock Pulled | | |
| | Cuffs | | | - | Contamination | | Mainte | | | Part Moved | | | | |
| ļ. | Heat Trea | | | | Countersink | - | Mislabe | | | Positioned V | | | | |
| 1 | Inspection | • | Tube | | Cut Too Short | | Misread | 1 | | Power Loss/ | Surge | Other | | |
| 1 | Ripples in | | | | Drill Holes | $ \square$ | Offset | | | | | | | |
| Ţ | Torque W | /aves in E | xtrusio | n L | Drawing | | Out of 0 | Calibration | | | | | | |
| 1 | Turning S | | | | Finish | | Out of S | Sequence | | | | | | |
| ĺ | Wave/Tw | ist in Tub | oe . | | Folio | | Outside | Dimensions | Outside Dimensions | | | | | |

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Tuesday, December 04, 2012 1:50:36 PM

Work Order ID:

94275

Rarent Item:

D412-705-015

Parent Item Name:

Driveshaft Tunnel Modification

Start Date: 12/4/2012

Required Date: 12/4/2012

Start Qty: 2.00

Required Qty: 2.00

5m3 2

Manufactured

Manufactured

Purchased

Location ST176

Location

GA

ST335

No

No

No

91845

123352

120930

123021

123664 123900

122141

123525

120

120

Loc Qty

Loc Qty

120

1242

1242

15

3

12

136

135

70

300

Each

120

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2

Each

Each

Each

0.0000

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Loc Code

Loc Code

2.0000

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88x

MS21060 L3K

5ms 200

Purchased

No

Location

ST316

120

Each 136.0000

Purchased

No

Location Loc Qty ST291 423 119546 50 120142 121524

Loc Code

423.0000

| NCR: | Yes / | No | WORK ORDER NON-CONFORMANCE | / UPDATE |
|------|-------|----|----------------------------|----------|

| DQA: | Date: | |
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| | | | | | | | | | | | QA Closed: | Dat | e: | |
|-------------------|--------------------------|-----------|-----------|-------------|---------------|--|----------|--|------------------|-------------|---|---------------|------|---------------------------|
| Work Ord | er: | | | | | DISPOSITION | | | | AGAINST DI | EPARTMENT | /PROCESS | | |
| Part No. NCR No. | | | | | | Rework Scrap Use-as-is Work Order Update | | Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite | | | Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier | | | Engineering Quality Other |
| Root | | | | | Descri | ption of work order update | | nitial | Ac | ction | Sign & | | T | <u></u> |
| Cause | | Date | Step | Qty | | or Non-conformance | 1 | ef Eng | 1 | cription | Date | Verification | , | QC Inspector |
| Doc/Data | | | , | | | | | | | | 1 | | | |
| Equip/Tooling | | | | | | | | | | | | | | · |
| Operator | | | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| Process | | | | | | • | | | | | | | | |
| Supplier | | | | | | | | | | | | | | |
| Training | | | | | | | | | | | | | | |
| Unapproved | | | | | | | 1 | | | | | | | |
| | | | | | | F | AUL | T CATE | GORY | | | | | |
| Landi | ng (| Gear | | | | General | | | | | | _ | | €. |
| | | Bending. | | | | Bend | | Grain | | | Ovalized | | Pr | ressure/Forced |
| , | | Centre No | ot Concer | ntric to | o/s | BOM/Route | | Hardwa | ire | | Over/Under | tolerance | Τe | emperature/Cure |
| | | Cracks | | | | Broken/Damaged | | Inspect | ion Incomplete | | Part Incorre | ct | w | /eld |
| | | Crushed/0 | Crimped. | | | Burrs | | Instruct | tions Incomplete | /Unclear | Part Lost/M | issing | w | rong Stock Pulled |
| | | Cuffs | | | L | Contamination | | Mainte | enance | | Part Moved | | | |
| | | Heat Trea | t | | | Countersink | | Mislabe | eled | | Positioned \ | V rong | | |
| | Inspection Strip in Tube | | | | Cut Too Short | | Misread | Ė | | Power Loss/ | /Surge | 0 | ther | |
| | Ripples in Bend | | | Drill Holes | Ш | Offset | | | | | | | | |
| | | Torque W | aves in E | xtrusio | n _ | Drawing | | Out of | Calibration | | | | | |
| | Turning Sequence Finish | | | Finish | | Out of 9 | Sequence | | | | | | | |
| | Wave/Twist in Tube | | | | | Folio | | Outside | Dimensions | | | | | |

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REFERENCE ONLY

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IIN-D412-705 Page 16 of 16

5.0 PARTS LIST

| Qty | Qty | Qty -015 | Qty -017 | Qty -019 | Qty -021 | Qty -023 | Part Number | Description |
|----------|--|--|-------------------------|---------------------------|--|--|---------------------|--|
| -011 | -013 | - U.151 | -017 | -015 | -021 | -023 | D412-705-011 | TWIN PAK E-Z ACCESS KIT |
| X | | | | | - | | D412-705-011 | INTAKE PLENUM ACCESS PANEL KIT |
| 1 | X | | | | | | D412-705-015 | DRIVESHAFT TUNNEL MODIFICATION KIT |
| 1 | | X | | | | | D412-705-017 | N1 GEARBOX ACCESS PANEL KIT |
| 1 | | | X | X | | | D412-705-017 | C-BOX OIL COOLER LINE SUPPORT ACCESS KIT |
| 1 | | | | | X | | D412-705-013 | OIL PRESSURE TRANSMITTER ACCESS KIT |
| 1 | | | | | | Х | D412-705-021 | OIL COOLER SUPPORT REMOVABLE LOWER |
| 1 | | | | | | ^ | D412-703-023 | PANEL KIT |
| | | <u> </u> | | | | | | FARLER |
| | 1 | <u> </u> | | | | | D3245-041 | ACCESS PANEL ASSEMBLY, LH |
| | 1 1 | | | | | - | D3245-041 | ACCESS PANEL ASSEMBLY, RH |
| | 2 | - | | | | | D3245-043 | DOOR ASSEMBLY |
| | 2 | | | | | | D3245-9 | GASKET |
| | 2 | + | | | | | D3245-11 | GASKET |
| | 2 | | | | | | D3245-13 | GASKET |
| | | - | 1 | | | | D3255-041 | ACCESS PANEL ASSEMBLY, LH |
| | | | 1 | | - | | D3255-042 | ACCESS PANEL ASSEMBLY, RH |
| | | -1 | pacific and interest to | | No. of the last of | THE PARTY OF THE P | ∎D3256-1 | ACCESS:PANED |
| - | <u> </u> | | TH. A.E.A. | Section 18 | Z.J., | The same of | -D3256-3 | GASKET |
| | | ' - | | 1 | | | D3259-041 | ACCESS PANEL ASSEMBLY, LH |
| | | | | 1 | | | D3259-042 | ACCESS PANEL ASSEMBLY, RH |
| | | | | | 1 | | D3307-041 | ACCESS PANEL ASSEMBLY |
| | | + | | | | | | |
| | | 1 | | | | 30 | AN3-3A | BOLT |
| | <u> </u> | 22 | 30 | TOTAL SECTION | <u>6-22</u> | FI (ABO) STEWN | AN3C-3A | #B⊙l√I |
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| | | | | | | 18 | MS21069-L3K | NUT PLATE |
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Revision: C

Date: 07.10.12